FIG. 1

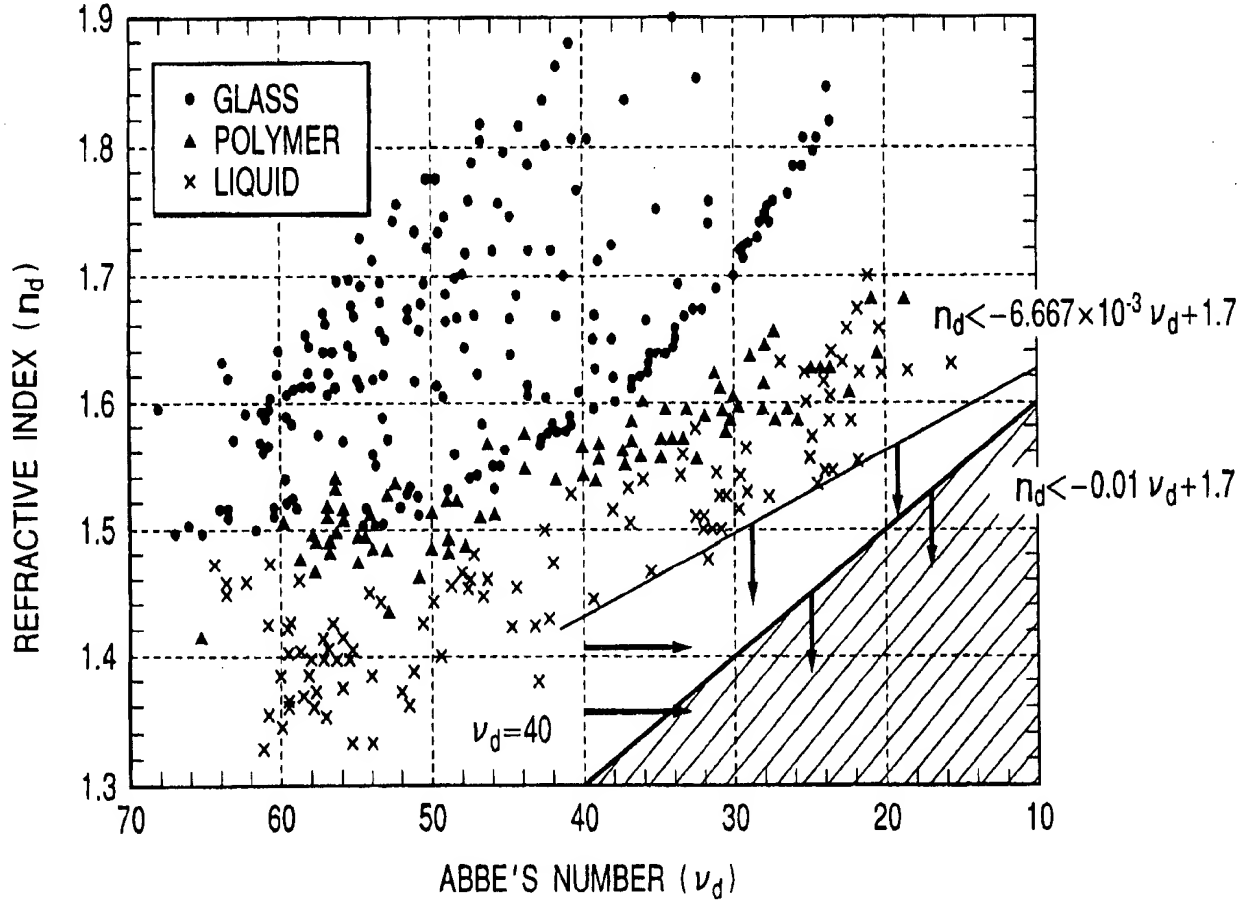

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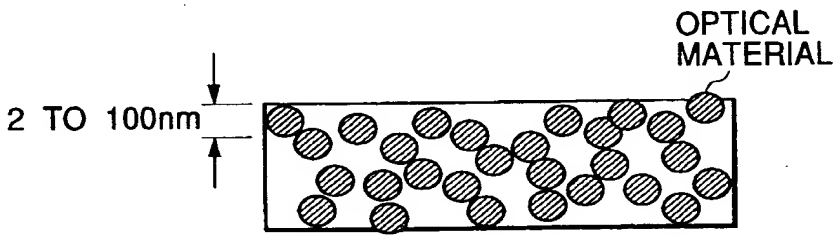
FIG. 2



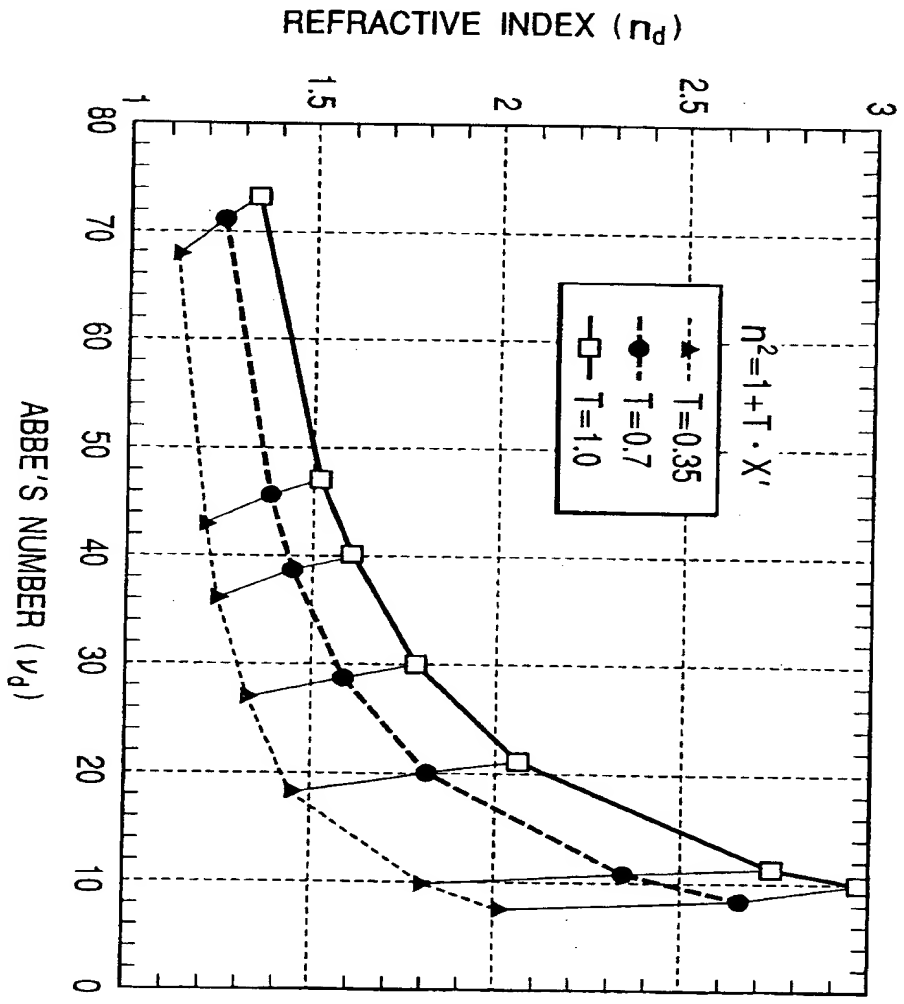

REFRACTIVE INDEX (n_d)
1
1.5
2
2.5
3
ABBE'S NUMBER (ν_d)
80
70
60
50
40
30
20
10
0
$n^2=1+T \cdot X'$
T=0.35
T=0.7
T=1.0

FIG. 3

FIG. 4

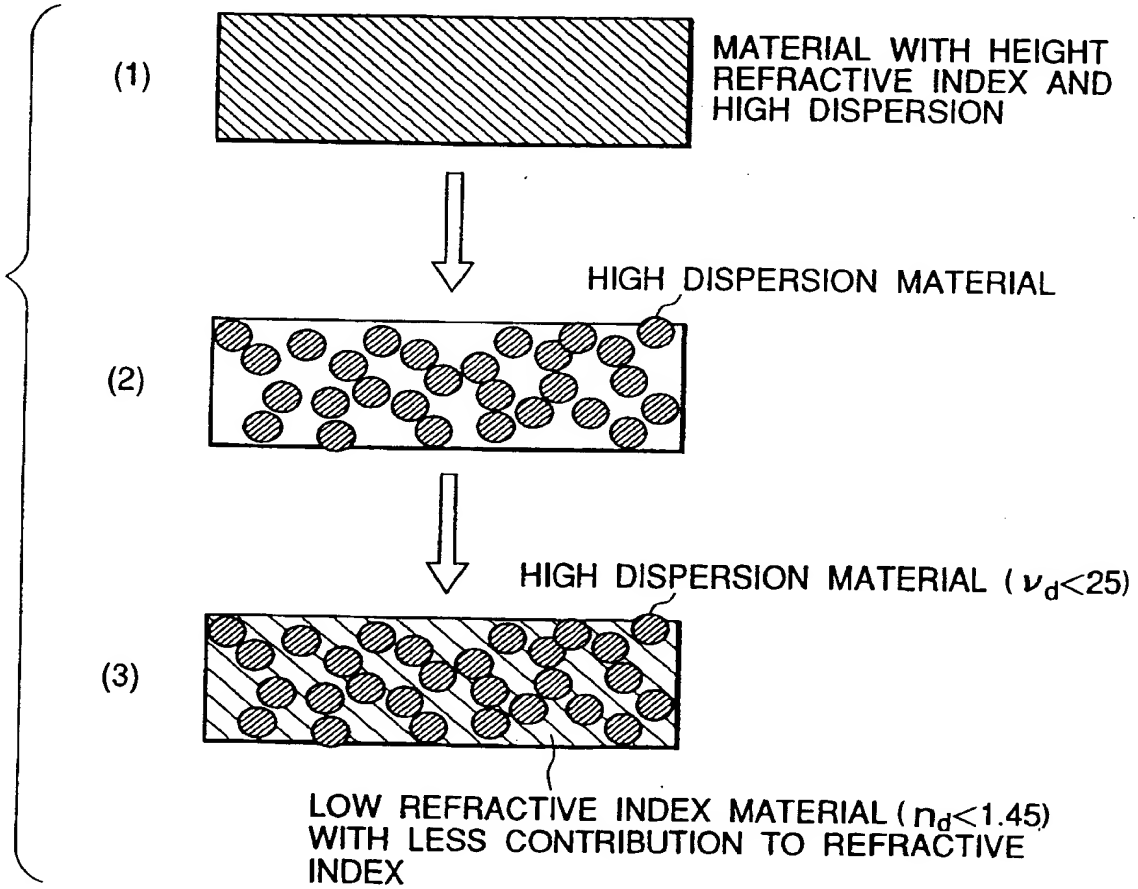

(1)
MATERIAL WITH HEIGHT REFRACTIVE INDEX AND HIGH DISPERSION
HIGH DISPERSION MATERIAL
(2)
HIGH DISPERSION MATERIAL (ν_d<25)
(3)
LOW REFRACTIVE INDEX MATERIAL (n_d<1.45) WITH LESS CONTRIBUTION TO REFRACTIVE INDEX

FIG. 5

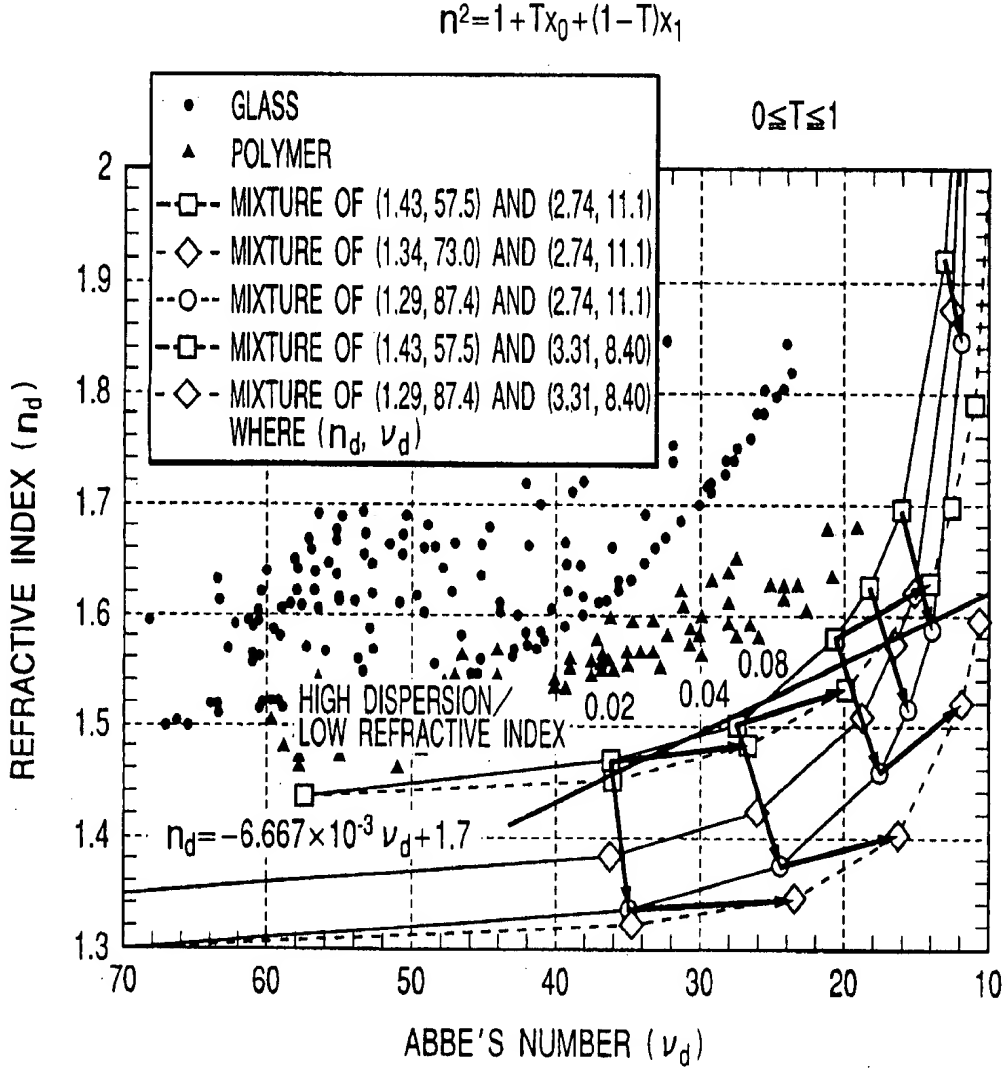


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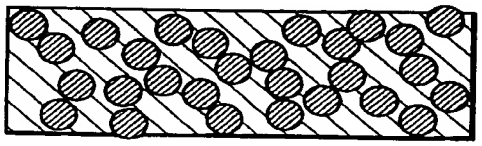
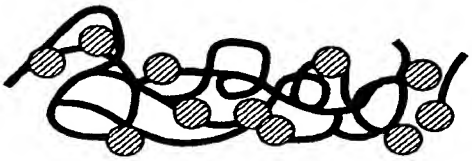
FIG. 6

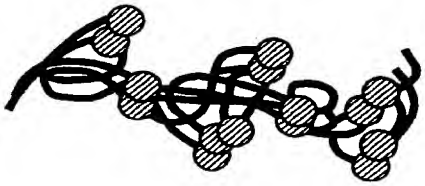
TYPE OF MIXTURE



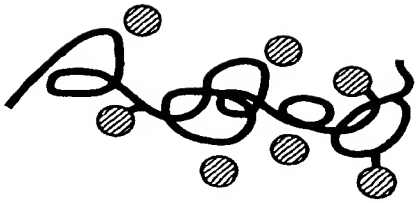
(1) NORMAL MIXTURE



(2) GUEST-HOST TYPE MIXTURE



(3) BACKBONE CHAIN TYPE MIXTURE



(4) SIDE CHAIN TYPE MIXTURE

FIG. 7

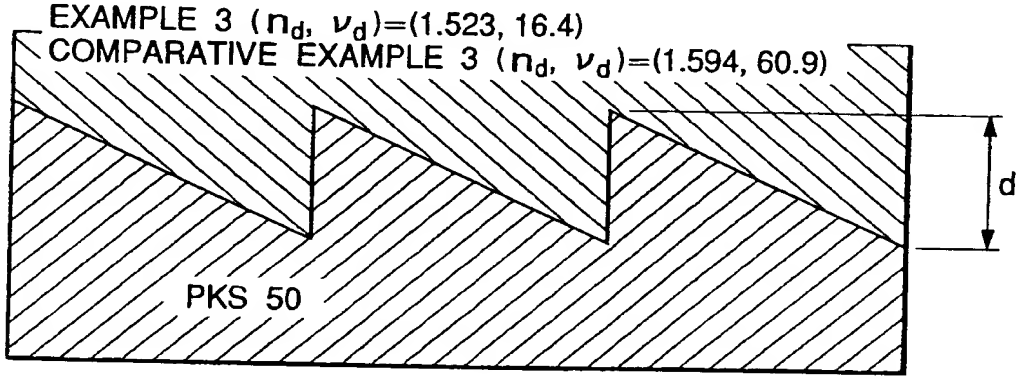

EXAMPLE 3 (n_d, ν_d)=(1.523, 16.4)
COMPARATIVE EXAMPLE 3 (n_d, ν_d)=(1.594, 60.9)
d
PKS 50

FIG. 8

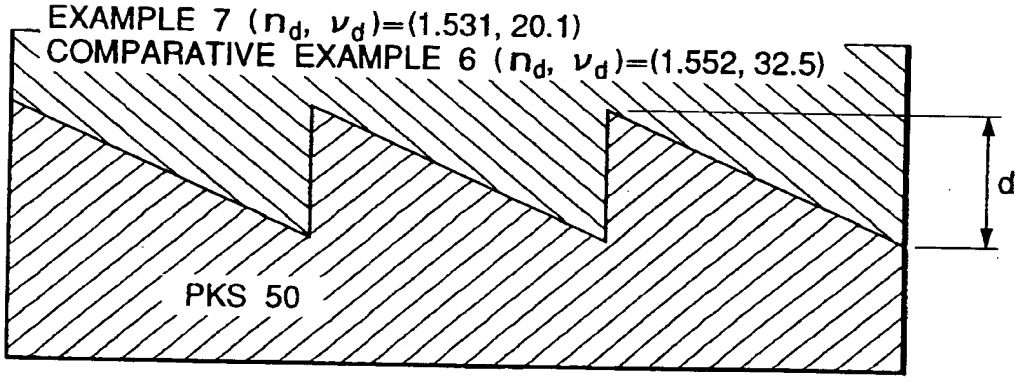
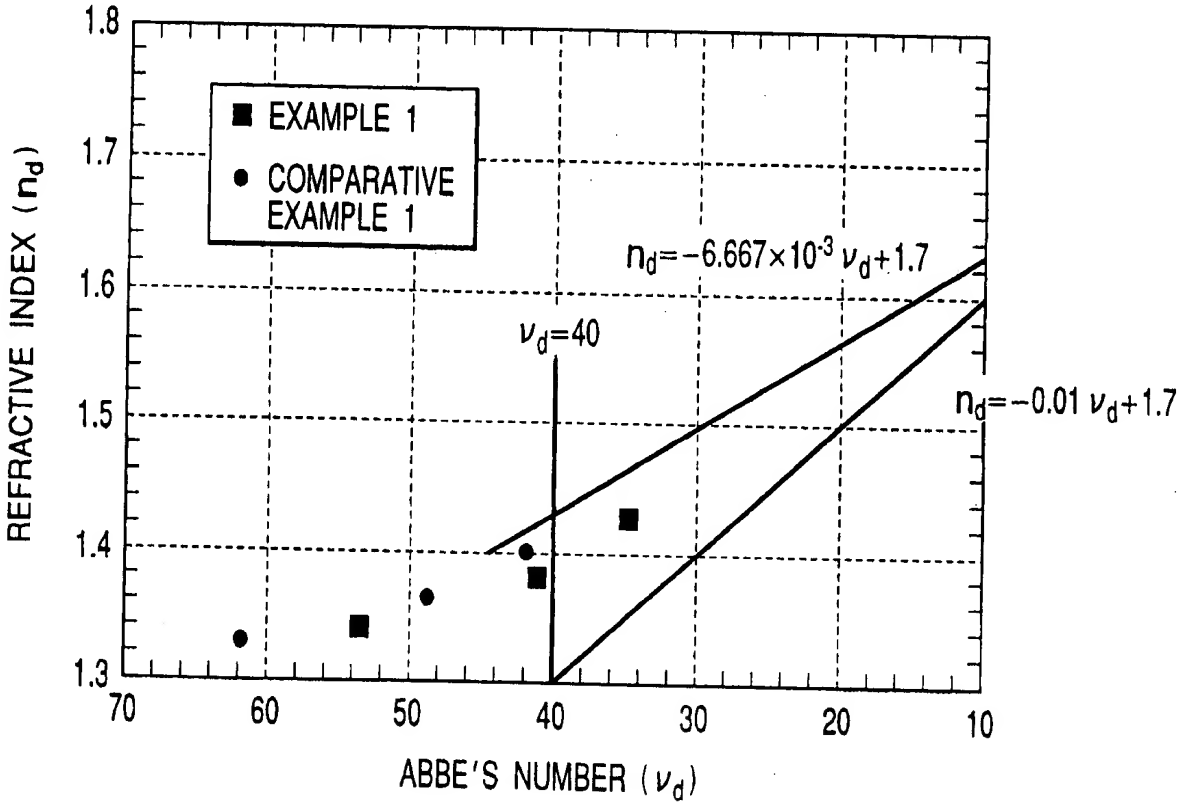

EXAMPLE 7 (n_d, ν_d)=(1.531, 20.1)
COMPARATIVE EXAMPLE 6 (n_d, ν_d)=(1.552, 32.5)
d
PKS 50

FIG. 9



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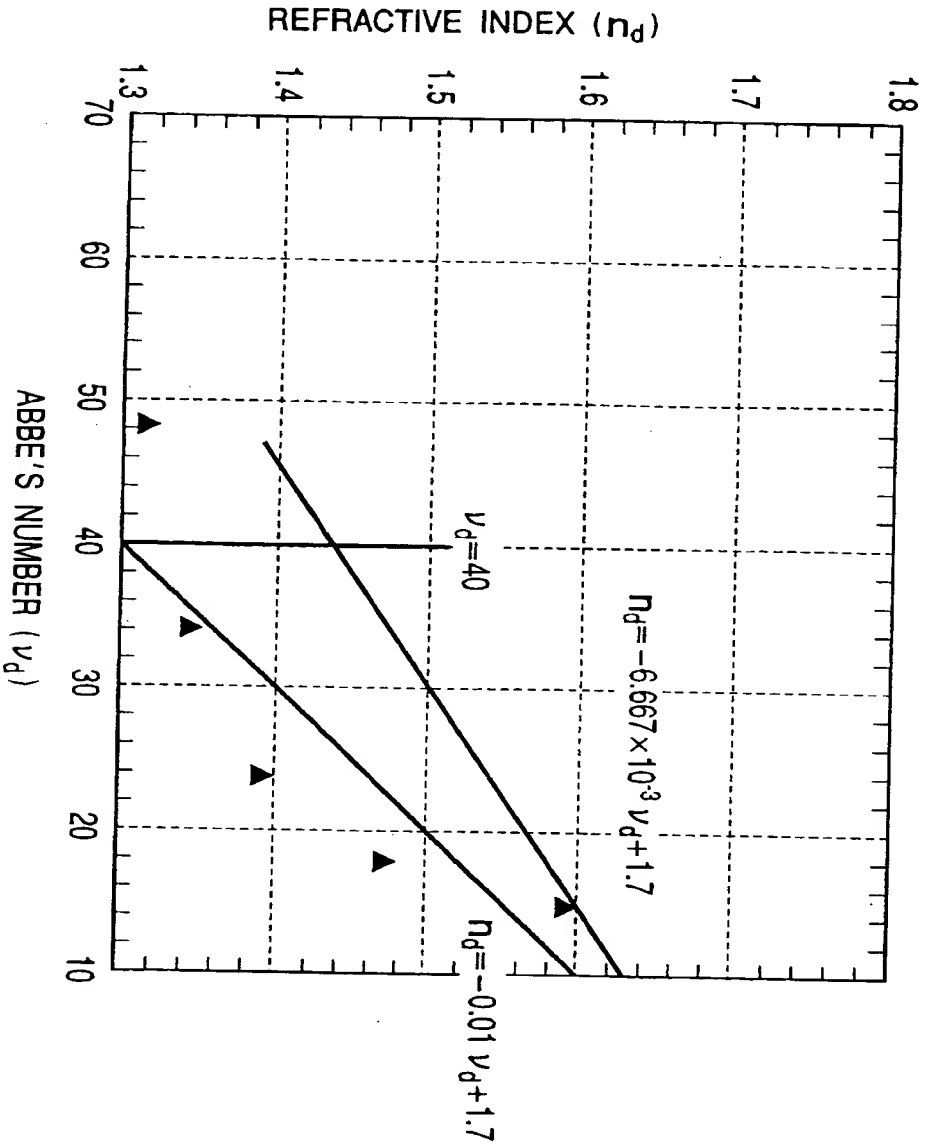
REFRACTIVE INDEX (n_d)
1.3
1.4
1.5
1.6
1.7
1.8
ABBE'S NUMBER (ν_d)
70
60
50
40
30
20
10
ν_d=40
n_d=−6.667×10⁻³ ν_d+1.7
n_d=−0.01 ν_d+1.7

FIG. 10

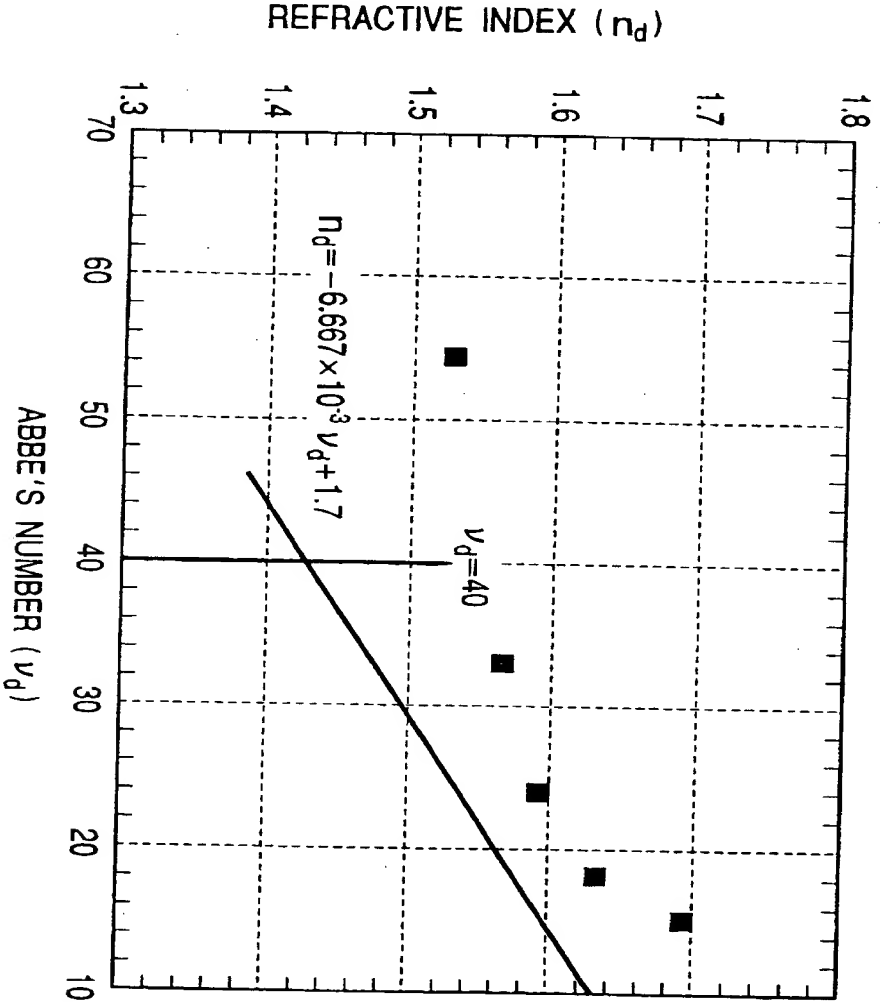
REFRACTIVE INDEX (n_d)
1.3
1.4
1.5
1.6
1.7
1.8
70
60
50
40
30
20
10
ABBE'S NUMBER (ν_d)
$n_d = -6.667 \times 10^{-3} \nu_d + 1.7$
$\nu_d = 40$

FIG. 11

FIG. 12

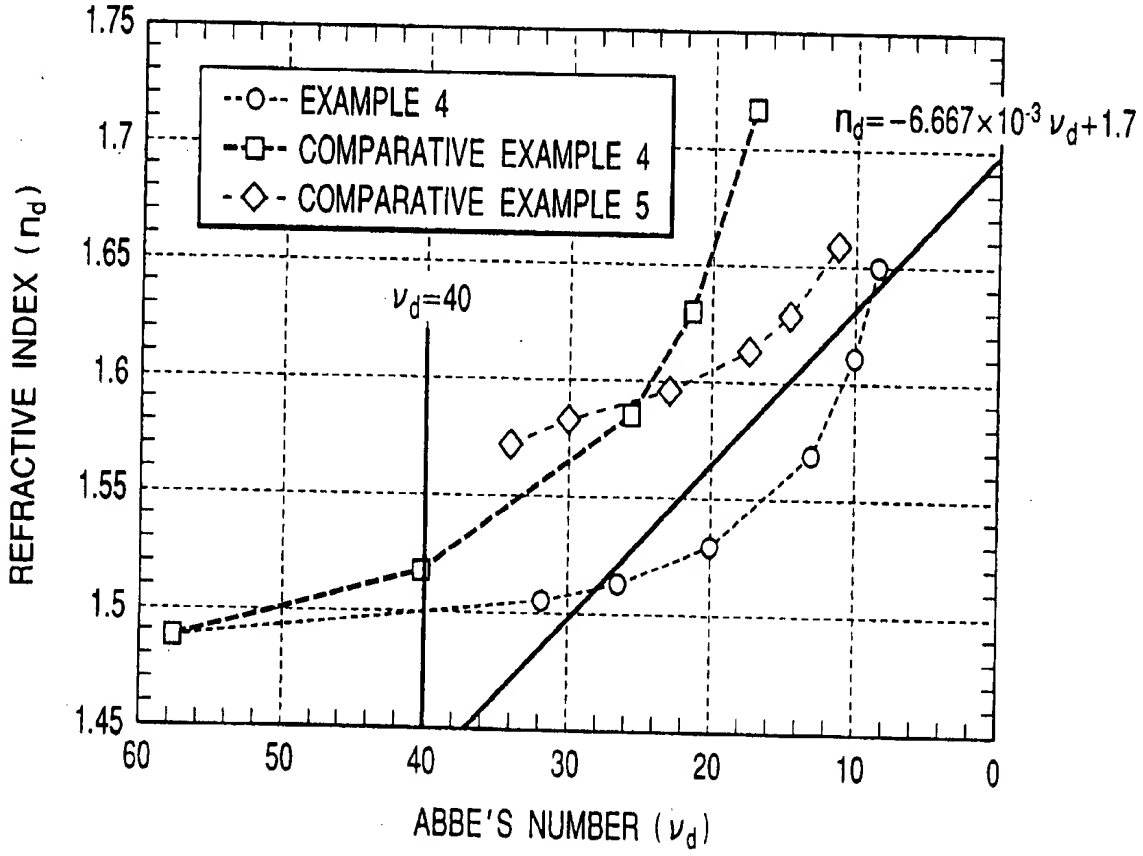

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FIG. 13

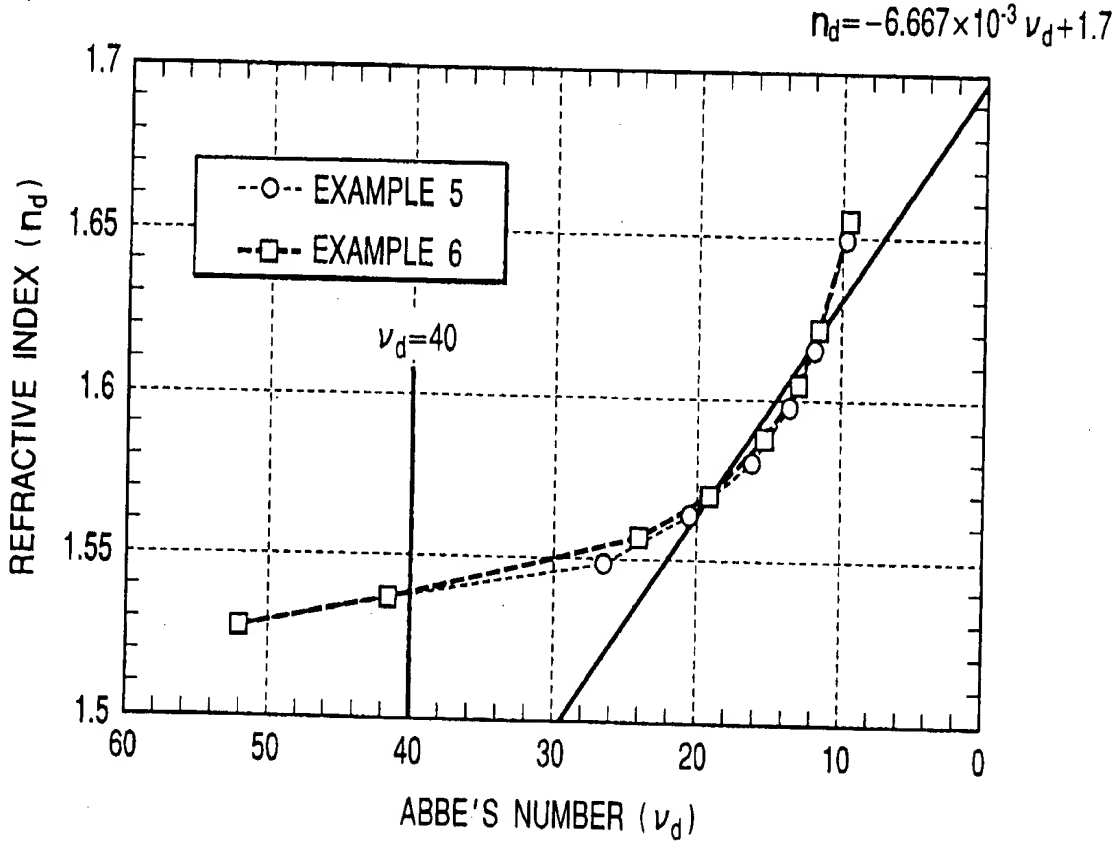

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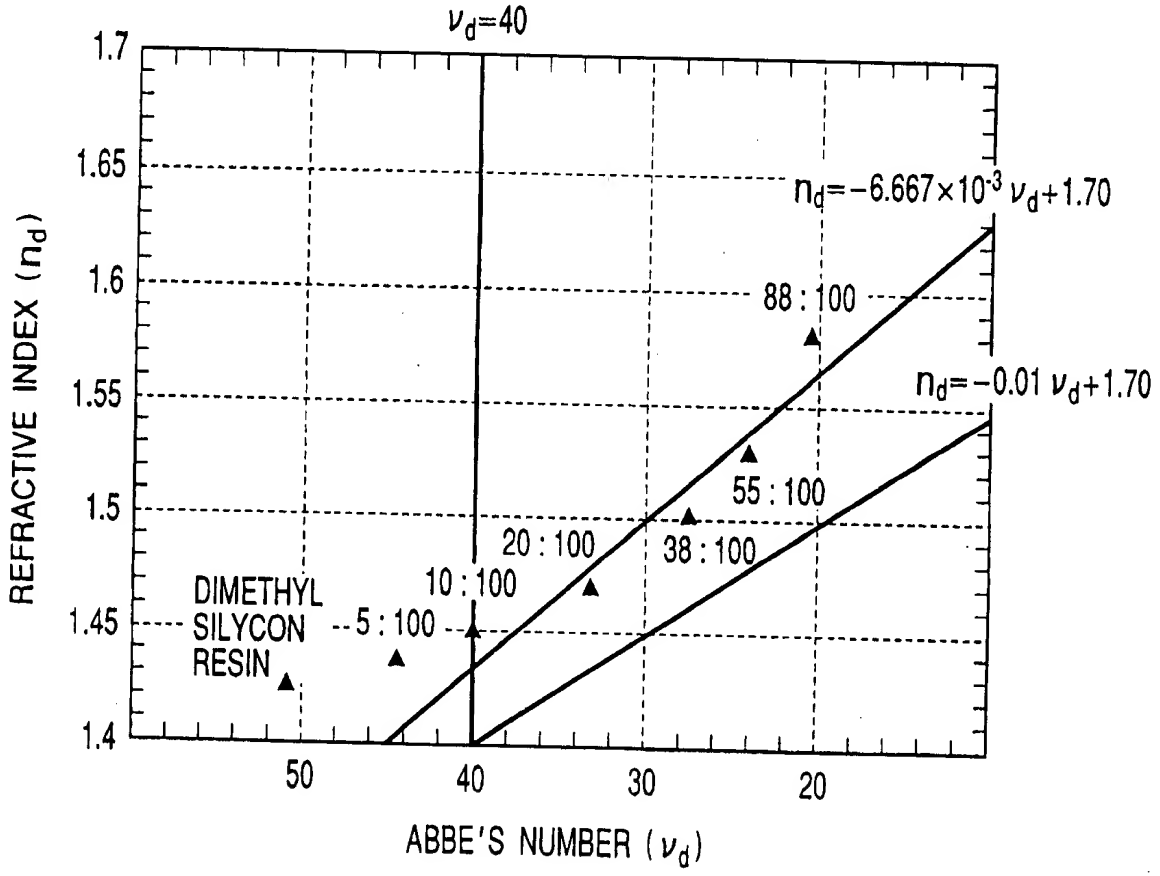
FIG. 14



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